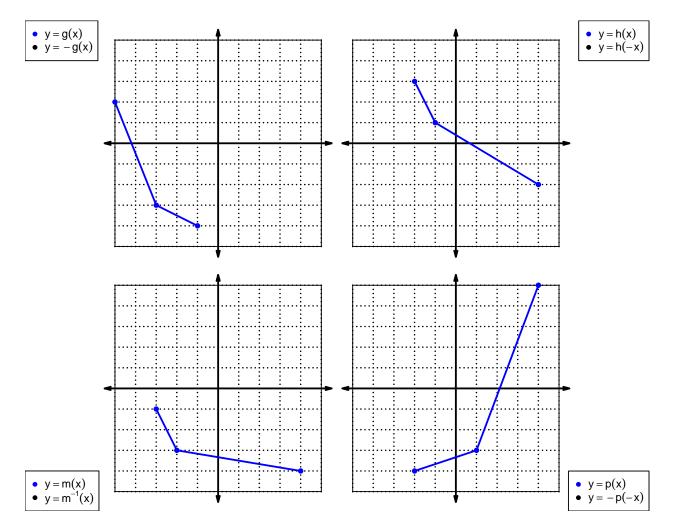
1. Let function f be defined by the polynomial below:

$$f(x) = -5x^4 + 4x^3 + 2x^2 - 8x - 6$$

Draw lines that match each function reflection with its polynomial:

Reflections	Polynomials	
f(-x) •		
-f(-x) •		
- f(x) •	\bullet $-5x^4-4x^3+2x^2+8x-6$	

2. In each xy plane shown below, a function is graphed with blue. Draw the indicated reflections (as a second curve, indicated in legend) with black (or with whatever you have). The x axis is horizontal and the y axis is vertical (as typical), and the scale is equal on both axes.



For all questions on this page, the functions f, g, and h are defined by the table below.

\boldsymbol{x}	f(x)	g(x)	$\frac{h(x)}{5}$
1	6	2	5
2	9	3	7
3	1	9	4
4	8	1	1
5	2	4	9
6	5	8	3
7	3	7	6
8	4	5	2
9	7	6	8

3. Evaluate h(3).

4. Evaluate $f^{-1}(6)$.

5. Assuming g is an **even** function, evaluate g(-8).

6. Assuming h is an **odd** function, evaluate h(-7).

7. A function, f, is **even** if f(x) = f(-x) for all x in the domain. A function, g, is **odd** if g(x) = -g(-x) for all x in the domain.

Let polynomial p be defined with the following equation:

$$p(x) = -x^3 - x$$

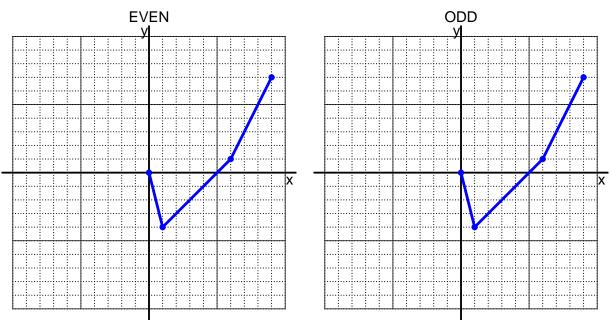
a. Express p(-x) as a polynomial in standard form.

b. Express -p(-x) as a polynomial in standard form.

c. Is polynomial p even, odd, or neither?

d. Explain how you know the answer to part c.

8. I have drawn half of a function. Draw the other half to make it even or odd.



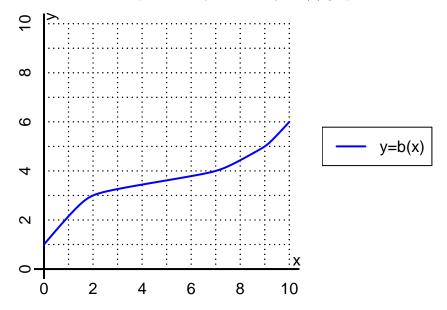
9. Let function f be defined with the equation below.

$$f(x) = 5(x-7)$$

a. Evaluate f(10).

b. Evaluate $f^{-1}(20)$.

10. The function b is represented by the curve y = b(x) graphed below.



a. Evaluate b(7).

b. Evaluate $b^{-1}(3)$.

- 11. Function f is defined by the table below.
 - a. Complete the columns for -f(x) and f(-x) and -f(-x).

\overline{x}	f(x)	-f(x)	f(-x)	-f(-x)
-2	-7			
-1	8			
0	0			
1	8			
2	-7			

b. Is function f even, odd, or neither?

c. How do you know the answer to part b?